AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (canceled).

- (New) A fuel injector for a fuel-injection system of an 9. internal combustion engine, comprising:
 - a solenoid coil;
- a tubular support acting as an inner pole of the solenoid coil; and
- a filter element affixed on an outer contour of the tubular support.
- The fuel injector as recited in Claim 9, wherein the outer contour of the tubular support includes grooves.
- 11. The fuel injector as recited in Claim 10, wherein the grooves are provided in the outer contour of the tubular support by one of machine cutting and with the aid of a form steel.
- The fuel injector as recited in Claim 10, wherein 12. the tubular support includes a shoulder on the discharge side of the grooves.
- 13. The fuel injector as recited in Claim 12, wherein the filter element rests against the shoulder.

14. (New) The fuel injector as recited in Claim 10, further comprising:

an extension sleeve surrounding the exterior of the filter element, wherein the extension sleeve has an inner diameter that is slightly smaller than an outer diameter of the filter element, whereby a press-fit between the filter element and the tubular support is achieved by the extension sleeve.

15. (New) The fuel injector as recited in Claim 12, further comprising:

an extension sleeve surrounding the exterior of the filter element, wherein the extension sleeve has an inner diameter that is slightly smaller than an outer diameter of the filter element, whereby a press-fit between the filter element and the tubular support is achieved by the extension sleeve.

16. (New) The fuel injector as recited in Claim 13, further comprising:

an extension sleeve surrounding the exterior of the filter element, wherein the extension sleeve has an inner diameter that is slightly smaller than an outer diameter of the filter element, whereby a press-fit between the filter element and the tubular support is achieved by the extension sleeve.

17. (New) The fuel injector as recited in Claim 10, wherein the filter element includes a cup-shaped filter made of a cloth material and a glass fiber plastic extrusion coat.

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- 18. The fuel injector as recited in Claim 13, wherein (New) the filter element includes a cup-shaped filter made of a cloth material and a glass fiber plastic extrusion coat.
- 19. (New) The fuel injector as recited in Claim 14, wherein the filter element includes a cup-shaped filter made of a cloth material and a glass fiber plastic extrusion coat.
- 20. The fuel injector as recited in Claim 15, wherein the filter element includes a cup-shaped filter made of a cloth material and a glass fiber plastic extrusion coat.
- The fuel injector as recited in Claim 16, wherein the filter element includes a cup-shaped filter made of a cloth material and a glass fiber plastic extrusion coat.
- (New) A method for installing a fuel injector for a fuel-injection system of an internal combustion engine, the fuel injector having a solenoid coil, a tubular support acting as an inner pole of the solenoid coil, and a filter element affixed on an outer contour of the tubular support, the method comprising the steps of:

producing the filter element, the filter element including a cup-shaped filter having a cloth material;

extrusion-coating the filter element with a glass fiber plastic extrusion coat;

providing grooves in the outer contour of the tubular support;

mounting the filter element onto the outer contour of the tubular support;

mounting an extension sleeve on an outer contour of the filter element, an inner diameter of the extension sleeve

being slightly smaller than an outer diameter of the filter element; and

compressing the glass fiber plastic extrusion coat of the filter element into the grooves in the outer contour of the tubular support, using mounting pressure applied by the extension sleeve.

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